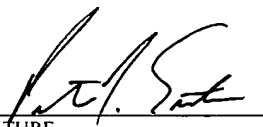


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| FORM PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  |  | ATTORNEY DOCKET NUMBER<br>046124-5430                                 |
| TRANSMITTAL LETTER TO THE UNITED STATES<br>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br>CONCERNING A FILING UNDER 35 U.S.C. 371   |  | U.S. APPLICATION NO. If known, see 37 CFR 1.5<br>NEW <b>10/552705</b> |
|  |  |   |
| INTERNATIONAL APPLICATION NO.<br>PCT/JP4/005156  | INTERNATIONAL FILING DATE<br>April 9, 2004 | PRIORITY DATE CLAIMED<br>April 11, 2003                               |
| TITLE OF INVENTION<br>RADIOACTIVE RAY DETECTOR   |  |   |
| APPLICANT(S) FOR DO/EO/US<br>Katsumi SHIBAYAMA, Yutaka KUSUYAMA, and Masahiro HAYASHI  |  |   |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |  |   |
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)) <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154 (d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has not expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).</li> <li>9. <input type="checkbox"/> An oath or a declaration of the inventor(s) (35 U.S.C. 371 (c)(4))</li> <li>13. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> |  |   |
| <p>Items 11 to 20 below concern document(s) or information included</p> <ol style="list-style-type: none"> <li>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input checked="" type="checkbox"/> A preliminary amendment.</li> <li>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821-1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. <input checked="" type="checkbox"/> Other items or information: <ol style="list-style-type: none"> <li>(a) PCT/IB/304</li> <li>(b) PCT/IB/308</li> <li>(c) PCT/ISA/210 dated July 20, 2004</li> <li>(d) Front page of International Publication No. WO 2004/093194</li> </ol> </li> </ol>  |  |   |

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|--|--------------|---|------------|--|--------------|
| <b>10/552705</b><br>U.S. APPLICATION NO. 37 CFR 1.53<br>NEW  |              | INTERNATIONAL APPLICATION NO.<br>PCT/JP04/005156                              |            | ATTORNEY DOCKET NUMBER<br>046124-5430  |              |
|  |              |   |            | Calculations   | PTO use only |
| The following fees are submitted:  |              |   |            |  |              |
| 21. <input checked="" type="checkbox"/> Basic national Fee ..... \$ 300.00   |              |   |            | \$ 300.00  |              |
| 22. <input checked="" type="checkbox"/> Examination Fee<br>If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) ..... \$ 100.00<br>All other situations ..... \$ 200.00  |              |   |            | \$ 200.00  |              |
| 23. <input checked="" type="checkbox"/> Search Fee<br>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority ..... \$ 100.00<br>International Search Report prepared and provided to the Office ..... \$ 400.00<br>All other situations ..... \$ 500.00   |              |   |            | \$ 400.00  |              |
| <b>TOTAL OF 21, 22 and 23 =</b>  |              |   |            | <b>\$900.00</b>  |              |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium).<br>The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  |              |   |            |  |              |
| Total Sheets   | Extra sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE       |  |              |
| 56 - 100 =   | 0/50 =       | 0   | × \$250.00 | \$0.00   |              |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).   |              |   |            | \$ 0.00  |              |
| CLAIMS   | NUMBER FILED | NUMBER EXTRA  | RATE       |  |              |
| Total claims   | 19 - 20 =    | 0   | X \$50.00  | \$ 0.00  |              |
| Independent claims   | 2 - 3 =      | 0   | X \$200.00 | \$ 0.00  |              |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) ..... + \$360.00   |              |   |            | \$ 0.00  |              |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>   |              |   |            | <b>\$ 900.00</b>   |              |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.   |              |   |            |  |              |
| <b>SUBTOTAL =</b>  |              |   |            | <b>\$900.00</b>  |              |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).  |              |   |            | + \$0.00   |              |
| <b>TOTAL NATIONAL FEE =</b>  |              |   |            | <b>\$ 900.00</b>   |              |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property   |              |   |            | + \$   |              |
| <b>TOTAL FEES ENCLOSED =</b>   |              |   |            | <b>\$900.00</b>  |              |
|  |              |   |            | Amount to be refunded:   | \$           |
|  |              |   |            | Amount to be charged:  | \$           |
| a. <input checked="" type="checkbox"/> A check in the amount of \$900.00 to cover the above fees is enclosed.<br>b. <input type="checkbox"/> Please charge my Deposit Account No. <u>50-0573</u> in the amount of \$ _____ to cover the above fees.<br>A duplicate copy of this sheet is enclosed.<br>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>50-0573</u> .<br>d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. |              |   |            |  |              |
| NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.  |              |   |            |  |              |
| SEND ALL CORRESPONDENCE TO:<br>CUSTOMER NO.: 055694<br><br>DRINKER BIDDLE & REATH LLP<br>1500 K Street, N.W., Suite 1100<br>Washington, D.C. 20005-1209<br>Tel: (202) 842-8800<br>Fax: (202)-204-0289  |              |   |            |  |              |
|  |              |   |            | <br>SIGNATURE<br>NAME: <u>Peter J. Sistare</u><br>REGISTRATION NUMBER: <u>48,183</u><br>DATE: <u>October 7, 2005</u> |              |